

BEFORE THE

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IDAHO PUBLIC UTILITIES COMMISSION  
PUBLIC UTILITIES COMMISSION

IN THE MATTER OF IDAHO POWER )  
COMPANY'S PETITION TO MODIFY )  
TERMS AND CONDITIONS OF )  
PURPA PURCHASE AGREEMENTS )

CASE NO. IPC-E-15-01

IN THE MATTER OF AVISTA )  
CORPORATION'S PETITION TO )  
MODIFY TERMS AND CONDITIONS )  
OF PURPA PURCHASE )  
AGREEMENTS )

CASE NO. AVU-E-15-01

IN THE MATTER OF ROCKY )  
MOUNTAIN POWER COMPANY'S )  
PETITION TO MODIFY TERMS AND )  
CONDITIONS OF PURPA )  
PURCHASE AGREEMENTS )

CASE NO. PAC-E-15-03

REBUTTAL TESTIMONY OF RICK STERLING

IDAHO PUBLIC UTILITIES COMMISSION

MAY 14, 2015

1 Q. Please state your name and business address for  
2 the record.

3 A. My name is Rick Sterling. My business address  
4 is 472 West Washington Street, Boise, Idaho.

5 Q. By whom are you employed and in what capacity?

6 A. I am employed by the Idaho Public Utilities  
7 Commission as the Engineering Supervisor.

8 Q. Are you the same Rick Sterling that previously  
9 submitted testimony in this proceeding?

10 A. Yes, I am.

11 Q. What is the purpose of your rebuttal testimony?

12 A. The purpose of my rebuttal testimony is to  
13 address several issues raised by Clearwater/Simplot  
14 witness Dr. Reading and ICL/Sierra Club witness Beach.

15 Q. Various witnesses have suggested that there is  
16 unequal treatment between QFs and utility-owned resources.  
17 Do you agree?

18 A. I would agree that QFs and utility-owned  
19 resources are not treated the same. However, much of the  
20 different treatment is because PURPA requires it. A  
21 significant difference is the pricing of QF generation.  
22 PURPA dictates that the price or rate a utility pays for  
23 the purchase of QF power be based on the avoided cost of  
24 the utility—not the QFs cost of producing the power. In  
25 particular, a QF that places its facility into service

1 before January 1, 2017 will receive a 30 percent tax  
2 credit. This substantial tax credit is not reflected in  
3 the avoided cost rate.

4 Furthermore, most of the different treatment is  
5 to the benefit rather than the detriment of QFs. For  
6 example, the utility has a "must purchase" obligation  
7 under PURPA whereas utilities may engage in arms-length  
8 bargaining when acquiring resources. In addition, QFS are  
9 entitled to contracts regardless of a utility's need,  
10 whereas utility-owned resources must obtain a Certificate  
11 of Public Convenience and Necessity, which requires a  
12 showing of present or future need and competitive cost  
13 compared to other alternatives. Utility-owned resources  
14 must be competitively procured and are subject to cost-  
15 based pricing, whereas QF contracts are not subject to  
16 competition and non-negotiated pricing. Utility-owned  
17 resources are dispatched based on market prices or the  
18 cost of alternate resources, but QF power must be accepted  
19 by the utility whenever offered. Finally, the fuel and  
20 variable costs of utility-owned resources are subject to  
21 annual adjustment through PCAs, but PURPA prices are fixed  
22 for the entire duration of the contract.

23 Q. Various witnesses (Reading pp. 25-26; Beach pp.  
24 21-25) have also suggested that PURPA projects, because of  
25 their fixed pricing, provide a valuable risk hedge and a

1 benefit to ratepayers. Do you agree?

2 A. No, not entirely. QF pricing, because it is  
3 locked in for 20 years, may eliminate price volatility,  
4 but it does not completely eliminate risk. QF prices that  
5 prove to be too high can be locked in to the detriment of  
6 ratepayers. Conversely, QF prices that prove to be too  
7 low can be locked in to the benefit of ratepayers. In  
8 either case, ratepayers are still exposed to the same  
9 risk. PURPA projects can help to limit risk when market  
10 prices rise to extreme levels, but they can also limit  
11 opportunities to take advantage of very low or declining  
12 prices for the benefit of ratepayers. Like all hedges,  
13 the critical question is how much protection do you need  
14 and how much should you be willing to pay for it.  
15 Utility-owned resources, on the other hand, are  
16 economically dispatched. In other words, they are only  
17 run when they are less costly than other alternatives or  
18 when their output can be sold at a profit.

19 Q. On pages 10 and 11 of Dr. Reading's direct  
20 testimony, he quotes a passage from Commission final Order  
21 No. 32697 in the GNR-E-11-03. In that Order, the  
22 Commission declined to adopt a contract length less than  
23 20 years. Are the circumstances of the 2011 case the same  
24 as in this case?

25 A. No, they are not. In the GNR-E-11-03 case, Idaho

1 Power proposed that the maximum contract length for all  
2 PURPA contracts be reduced from 20 years to 5 years. Tr.  
3 at 487, 489, 524 ("Idaho Power recommends that the five-  
4 year contract term apply to all PURPA QF power sale  
5 contracts."). In the GNR-E-11-03 case, Staff's position  
6 was that PURPA contracts be limited to five years for only  
7 those contracts utilizing the IRP methodology (i.e., above  
8 the SAR-based eligibility cap). I testified that:  
9 "Twenty-year contracts should continue to be available to  
10 QFs under the SAR methodology." Tr. at 1107-08.

11 So the Commission's statement quoted by Dr.  
12 Reading was also responding to Idaho Power's position that  
13 all PURPA contracts should be reduced to five years,  
14 regardless whether they used the SAR-based methodology or  
15 IRP-based methodology. In the present case, all the  
16 parties have agreed to continue 20-year contracts for SAR-  
17 based contracts. In other words, the parties have agreed  
18 that SAR-based PURPA contracts will be unaffected by the  
19 reduction in contract length recommended for IRP-based  
20 contracts.

21 Q. Are there other reasons for the Commission to  
22 re-examine the length of IRP-based PURPA contracts?

23 A. Yes, there are. First, the Commission is a  
24 regulatory agency that performs legislative functions and  
25 re-examines regulatory policies from time-to-time. The

1 Commission is not bound to decide future cases in the same  
2 way as in past cases. As I recounted in my direct  
3 testimony, since PURPA was first implemented in Idaho,  
4 maximum contract length has gone from 35 years, to 20  
5 years, to five years, and back to 20 years. The  
6 Commission can and should change policy as circumstances  
7 change.

8 Second, at the time the Commission issued its  
9 Order No. 32697 in the GNR case in December 2012, Idaho  
10 Power had less than 800 MW of nameplate PURPA power.  
11 Since the GNR case, Idaho Power reported that it had 461  
12 MW under contract from solar developers (including the 141  
13 MW of recently terminated contracts in the Clark Solar 1 -  
14 4 projects) and an additional 885 MW of proposed solar  
15 development. See Idaho Power Ex. 1. Simply put, Idaho  
16 Power claims that it has more than 1200 MW of contracted  
17 and proposed solar projects in this case. This compares  
18 with the Company's peak load of 3,400 MW, its minimum  
19 system load of 1,073 MW, and its average system load of  
20 1,800 MW. (Grow, Dir at 3; 2013 IRP Appendix A).

21 Q. On pages 14 and 15 of Dr. Reading's direct  
22 testimony, he created a chart and purportedly compares the  
23 costs of Idaho Power's generating resources to the costs  
24 of PURPA projects. Do you agree with the representations  
25 made in his Chart No. 1 on page 15?

1           A.    No, I do not.  In Chart 1 on page 15 of Dr.  
2   Reading's direct testimony, he compares the PURPA costs to  
3   the estimated capital and running costs of various Idaho  
4   Power-owned thermal generation resources.  While the  
5   comparison may be numerically accurate, it is extremely  
6   misleading because the resources being compared are very  
7   different types of resources.  More specifically, when  
8   resource costs are compared on a cost per MWh basis, and  
9   certain resources generate substantially different amounts  
10  of MWhs, peaking resources, such as Bennett Mountain and  
11  Danskin, will appear far more costly than baseload  
12  resources such as Jim Bridger.  Peaking resources, because  
13  they are used infrequently and generate few MWhs, will  
14  always appear far more "costly" than baseload resources  
15  when measured on a cost per MWh basis.  Conversely, on a  
16  cost per MW basis, peaking resources will always be less  
17  expensive than baseload resources.

18           In addition, Dr. Reading acknowledges that he  
19  omitted Idaho Power's lowest cost resources-its hydro  
20  resources-from his cost comparison.  He could have  
21  included the hydro data by using an average over several  
22  years or normalized data.  He also omitted hydro cost due  
23  to , in his words, "massive environmental remediation."  
24  (Dir at 16).  The failure to include hydro costs  
25  significantly misstates the Company's power costs,

1 especially where 1,709 MW of hydro is included in 3,500 MW  
2 of nameplate capacity (Grow, Dir at 5).

3 Fair and reasonable direct comparisons between  
4 the costs of different resources can only be made for  
5 resources with comparable capacity factors, and when the  
6 comparisons are made over the same periods of time.

7 Comparisons either on a cost per MW or a cost per MWh  
8 alone basis (capacity or energy) should never be used to  
9 judge the cost effectiveness of particular resources.

10 Similarly, cost comparisons in which only a portion of the  
11 duration of a contract are considered are also usually  
12 inappropriate. Differences between PURPA contract rates  
13 and market prices may exist in specific years, but there  
14 is no certainty that those differences will persist for  
15 the duration or remainder of a contract.

16 Q. On page 4, Dr. Reading has asked whether there  
17 are other viable opportunities for projects like Simplot's  
18 and Clearwater's to sell their output to other buyers in  
19 the region. Do you agree with his statement on page 5  
20 that "aside from PURPA sales to utilities, neither  
21 Clearwater nor Simplot have a legal or economically viable  
22 market, retail or wholesale, to sell electricity"?

23 A. No, I do not. Conspicuously absent in his  
24 answer and analysis is the possibility of either of these  
25 two entities selling their output to other utilities in

1 the region. Clearwater and Simplot may be able to operate  
2 in a similar fashion to exempt wholesale generators (EWGs)  
3 and sell their output to other utilities. For example,  
4 Clearwater currently sells its output to Avista using a  
5 non-PURA contract.<sup>1</sup> Other renewable projects have sold  
6 their non-PURPA output to other utilities such as the wind  
7 farm in eastern Idaho (Goshen North Wind Farm) selling to  
8 a California utility; Lucky Peak selling its hydro output  
9 to Seattle City Light or Palouse Wind selling its wind  
10 generation to Avista. Other renewable generators have  
11 been successful in selling their output to utilities  
12 without resorting to PURPA contracts including the Neal  
13 and Raft River geothermal projects to Idaho Power and the  
14 Elkhorn wind project to Idaho Power in Oregon.

15 Q. Could Clearwater sell its output to another  
16 utility other than Avista under either a PURPA or non-  
17 PURPA agreement?

18 A. Yes. As Dr. Reading notes on page 3 of his  
19 direct testimony, Clearwater's current 2013 agreement  
20 "provides Clearwater with a limited right to terminate its  
21

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22 <sup>1</sup> On May 13, 2015, Avista filed an Application seeking  
23 Commission approval of an amendment to Avista's contract  
24 with Clearwater. The amendment proposes to extend the  
25 current agreement by three additional years, in addition  
to permitting Avista to purchase incremental energy from  
Clearwater at negotiated prices when it is beneficial to  
both parties.

1 energy sales to Avista with 90 days' notice." (Reading,  
2 Dir at 3). Under the terms of its current power purchase  
3 agreement with Avista, Section 1 on page 2 of the  
4 agreement provides that:

5 If, during the Term of this Agreement,  
6 [Clearwater] desires to sell the output of  
7 the Generation to any third party,  
8 [Clearwater] shall terminate this Agreement  
9 by providing Avista written notice of  
10 termination at least 90 days prior to such  
11 termination. The sale to the third party  
12 shall not commence until the date on which  
13 this Agreement is terminated. In the event  
14 that [Clearwater] desires to sell the output  
15 of the Generation to any third party(ies),  
16 [Clearwater] shall be responsible for making  
17 all necessary arrangements to facilitate the  
18 sale of the output of the Generation to such  
19 third party(ies).

20 The Commission approved this contract in Order  
21 No. 32841 issued June 28, 2013. By the terms of this  
22 agreement, Clearwater clearly preserved the opportunity to  
23 sell its output to a party other than Avista.

24 Q. Dr. Reading on p. 36 suggests that there is a  
25 flaw in the IRP computation methodology because it is  
unable to account for hours when market prices are  
negative and that the model instead assigns a price of  
zero when the actual avoided cost is negative. Do you  
agree that the model is flawed?

A. I would agree that the model should not be  
assigning a price of zero when prices are negative.  
However, I would also point out that, despite possible

1 misconceptions, that the AURORAxmp model used to generate  
2 energy prices can, in fact, generate negative prices under  
3 certain circumstances. The Idaho Power spreadsheet that  
4 uses AURORAxmp prices as input should then, in turn, be  
5 able to capture the effect of negative prices.

6           Nonetheless, while the capability to account for  
7 negative pricing exists, no negatively priced hours  
8 appeared in the AURORAxmp output used for pricing the 13  
9 recent Idaho Power solar contracts, primarily because  
10 negative pricing is currently not likely under average  
11 conditions used for PURPA pricing.

12           Q. Does this conclude your rebuttal testimony in  
13 this proceeding?

14           A. Yes, it does.

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## CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT I HAVE THIS 14<sup>TH</sup> DAY OF MAY 2015, SERVED THE FOREGOING **REBUTTAL TESTIMONY OF RICK STERLING**, IN CASE NOS. IPC-E-15-01/PAC-E-15-03/AVU-E-15-01, BY E-MAILING A COPY THEREOF, POSTAGE PREPAID, TO THE FOLLOWING:

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